

MEARES and CHMURA
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PATENT

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,


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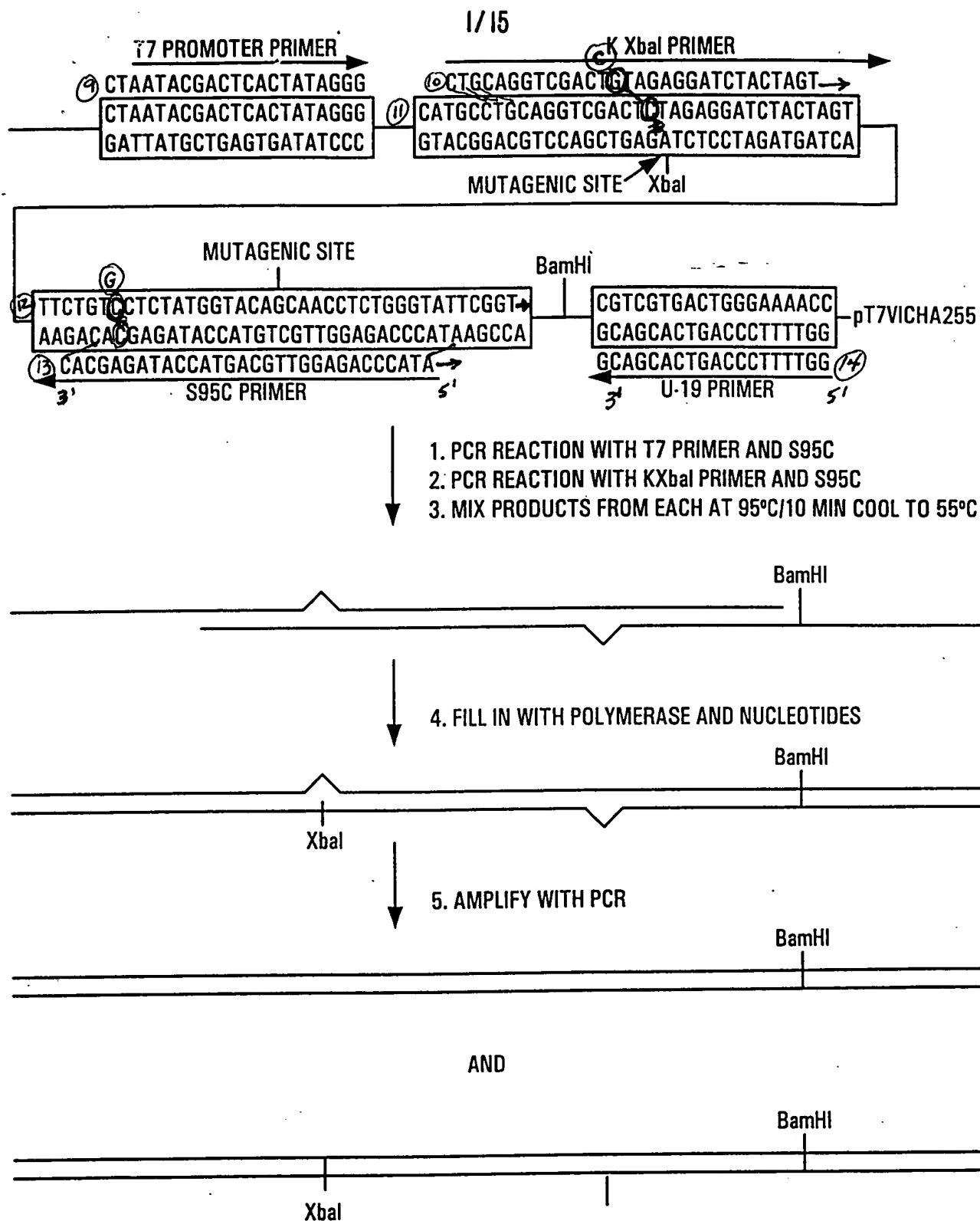


FIG. 1.



XhoI														
GGTGCTC														
GAA	GTG	ACG	CTG	GTG	GAG	TCT	GGG	GGA	GAC	TCA	GTG	AAG	CCT	GGA
CTT	CAC	TGC	GAC	CAC	CTC	AGA	CCC	CCT	GTG	AGT	CAC	TTC	CTG	GGG
Glu	Val	Thr	Leu	Val	Gly	Ser	Gly	Gly	Asp	Ser	Val	Lys	Pro	Gly
FR1														
TCC	TGT	GCA	GCC	TCT	GGA	TTC	ACT	TTA	AGT	GGT	GAA	ACC	ATG	TCT
ACC	ACA	CGT	CGG	AGA	CCT	AAG	TGA	AAT	TCA	CCA	CTT	TGG	TAC	CTG
Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Leu	Ser	Gly	Glu	Thr	Met	Ser
FR2														
CCG	GAG	AAG	AGG	CTG	GAC	TGG	GTC	GCA	ACC	ACT	CTT	AGT	GGT	GGT
GAC	CTC	TTC	TCC	GAC	CTC	ACC	CAG	CGT	TGG	TGA	GAA	TCA	CCA	CCA
Pro	Glu	Lys	Arg	Leu	Glu	Trp	Val	Ala	Thr	Thr	Leu	Ser	Gly	Gly
FR3														
TCA	GCC	AGT	GTG	AAG	GGT	CGT	TTC	ACC	ATC	TCC	AGA	GAC	AAT	GCC
AGT	CTG	TCA	CAC	TTC	CCA	GCA	AAG	TGG	TAG	CTG	TCT	CTG	TTA	CTG
Ser	Ala	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala

FIG. 2A.



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CTA CAA CTG AAT AGT CTG AGG TCT GAG GAC ACG GCC TTG TAT TTC TGT GCA AGT CAT CGG
GAT GTT GAC TTA TCA GAC TCC AGA CTG TGC CGG AAG ATA AAG ACA CGT TCA GTA ~~G~~CC
Leu Gln Leu Asn Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Phe Cys Ala Ser His Arg

COR3

AGA CGT CGG TTT TGC TG ~~C~~ ^GCCCGGAGG
TCT GCA GCC AAA ACG ACA CCC CCA
GTC CAG CAG TGA TGC TTT TGC TGT ~~G~~GT
CTG GAC GAC CAG Val Thr Val Thr Lys Thr Thr Pro
ACT GGC CAC CAC GTG His Gly Thr Leu Val Thr Val Thr Thr Pro
TGG GGC CAC GGC ACT GGG CCC TGA TGC TTT TGC TGT ~~G~~GT
CAC GTG ACC CCG GTG His Gly Thr Leu Val Thr Val Thr Thr Pro
GTT CAC TGG GGC CAC GGC ACT GGG CCC TGA TGC TTT TGC TGT ~~G~~GT
Phe Val His Trp Gly His Gly Thr Leu Val Thr Val Thr Thr Pro

FR4

CH1

FIG. 2B.



SstI
-XhoI

^G
GTCACACGTC

GCT GTT GTG ACT CAG GAA TCT
GCT GTT GTG ACT CAG GAA TCT
CGA CAA CAC TGA GTC CTT AGA
Ala Val Val Thr Gln Glu Ser Ala
FR1

TGT CGC TCA AGT ATT ^GGG GCT GGT ACA TGT ACA ACT AGT AAC TAT GCC AAC TGG GTC CAA GAA AAA
ACA GCG AGT TCA TAA CCC CGA CAA TGT TGA TCA TCG ATA CGG TTG ACC CAG GTC CAA GAA AAA
Cys Arg Ser Ser Ile Gly Ala Val Thr Thr Thr Ser Asn Tyr Ala Asn Trp Val Gln Glu Lys
FR2

^D
CØR1

CCA GAT CAT TTA TTC ACT GGT GGT CTA ATA GGT GGT ACC AAT AAC CGG GCT CCG GGT GTT CCT
GGT CTA GTA AAT AAG TGA CCA CCA GAT TAT TAT CCA CCA TGA TCG TTA TTA TCG CGA GGC CCA CAA GGA
Pro Asp His Leu Phe Thr Gly Thr Gly Leu Ile Gly Gly Thr Asn Asn Arg Ala Pro Gly Val Pro
FR3

^D
CØR2

GCC AGA TTC TCA GGC TCC CTG ATT GGA GAC AAG GCT GCC CTC ACC ATC ACA GGG GCA CAG
CGG TCT AAG AGT CCG AGG GAC TAA CCT CTG TCC CGA CCG GAG TGG TAG TGT CCC CGT GTC
Ala Arg Phe Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln

FIG. 3A.



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ACT GAA GAT GAG GCA AGA TAT TTC TGT GCT CTA TCG TAC TGC AAC CTC TGG GTG TTC GGT
TGA CTT CTA CTC CGT TCT ATA AAG ACA CAG GAT ACC ATG ACG TTG GAG ACC CAC AAG CCA
Thr Glu Asp Glu Ala Arg Tyr Phe Cys Ala Leu Trp Tyr Cys Asn Leu Trp Val Phe Gly

CØR3

FR4

GGA GGA ACC AAA CTG ACT GTC CTA AGC CAG CCC AAG TCT TCG CCA TCA GTC ACC CTG TTT
CCT CCT TGG TTT GAC TGA CAG GAT TCG GTC GGC TTC AGA AGC GGT AGT CAG TGG GAC AAA
Gly Gly Thr Lys Leu Thr Val Leu Ser Gln Pro Lys Ser Ser Pro Ser Val Thr Leu Phe

CT

BsiWI
BalWI

CGTACGCTC

CCG CCC TCC TCT GAA GAG CTA AGC TTG GGA ATC GGA TTC CCG GG
GGC GGG AGG AGA CTT CTC GAT TCG AAC CCT TAG CCT AAG GGC CC
Pro Pro Ser Ser Glu Glu Leu Ser Leu Gly Ile Gly Phe Pro Gly

FIG. 3B.